

Application No. 10/020,707  
Amendment dated February 25, 2004  
Reply to Office action of January 16, 2004

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

- 1                    Claim 1 (currently amended): An electrical test probe tip for use with a  
2    probing head, comprising:
- 3                    (a)    a conductive flexible coil having a first end and a second end;
- 4                    (b)    said first end for coupling with a device to be probed;
- 5                    (c)    a connector attached to said second end of said conductive flexible  
6                    coil with minimal overlap between said connector and said second  
7                    end of said flexible coil; and
- 8                    (d)    said connector for connecting to said probing head; and
- 9                    ~~(e) — said conductive flexible coil at least partially extending beyond said~~  
10                    ~~probing head when said connector is connected to said probing~~  
11                    ~~head.~~

- 12
- 1                    Claim 2 (previously presented): The electrical test probe tip of claim 1,  
2    said connector being a connecting pin coupleable to said probing head.

- 3
- 1                    Claim 3 (previously presented): The electrical test probe tip of claim 1,  
2    said connector being a square pin coupleable to said probing head.

- 3
- 1                    Claim 4 (withdrawn): The electrical test probe tip of claim 1, said  
2    connector being in integral connection with said probing head.

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1                   Claim 5 (original): The electrical test probe tip of claim 1, said flexible coil  
2                   having a longitudinal axis and a first diameter, said first diameter being substantially  
3                   equal throughout said longitudinal axis of said flexible coil.

4

1                   Claim 6 (withdrawn): The electrical test probe tip of claim 5, said first end  
2                   having a second diameter larger than said first diameter.

3

1                   Claim 7 (withdrawn): The electrical test probe tip of claim 1, said first end  
2                   further comprising a hook.

3

1                   Claim 8 (withdrawn): The electrical test probe tip of claim 1, said first end  
2                   further comprising a foot.

3

1                   Claim 9 (withdrawn): The electrical test probe tip of claim 1 further  
2                   comprising an exterior conductive sheath at least partially surrounding said conductive  
3                   flexible coil.

4

1                   Claim 10 (withdrawn): The electrical test probe tip of claim 1 further  
2                   comprising an exterior insulating sheath at least partially surrounding said conductive  
3                   flexible coil.

4

1                   Claim 11 (withdrawn): The electrical test probe tip of claim 1 further  
2                   comprising a conductor disposed at least partially through the axial center of said  
3                   conductive flexible coil.

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1 Claim 12 (withdrawn): The electrical test probe tip of claim 11, wherein  
2 said conductor is made of a conductive elastomer.

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1 Claim 13 (currently amended): A multipurpose electrical test probe tip  
2 ~~interconnectable with a probing head~~, comprising:

- 3 (a) a conductive flexible member and having a longitudinal length;
- 4 (b) said flexible member having a first end at a first end of said  
5 longitudinal length and a second end at a second end of said  
6 longitudinal length;
- 7 (c) said flexible member being substantially hollow at said first end;  
8 and
- 9 (d) a connector;
- 10 (e) said connector being connected to said second end of said flexible  
11 member;
- 12 (f) said flexible member being flexible along substantially the entire  
13 longitudinal length of said flexible member when interconnected  
14 with said connector. ~~first end of said conductive flexible member for~~  
15 ~~securely flexibly coupling with a component to be probed so as to~~  
16 ~~allow movement of said probing head.~~

17

1 Claim 14 (previously presented): The multipurpose electrical test probe tip  
2 of claim 13, wherein said second end of said conductive flexible member is  
3 interconnectable with said probing head.

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1                   Claim 15 (withdrawn): The multipurpose electrical test probe tip of claim  
2 14, wherein said second end of said conductive flexible member is integral with said  
3 probing head.  
4

1                   Claim 16 (original): The multipurpose electrical test probe tip of claim 14,  
2 said second end of said conductive flexible member further comprising a connector  
3 coupleable with said probing head.  
4

1                   Claim 17 (original): The multipurpose electrical test probe tip of claim 13,  
2 said flexible member having a longitudinal axis and a first diameter, said first diameter  
3 being substantially equal throughout said longitudinal axis of said flexible coil.  
4

1                   Claim 18 (withdrawn): The multipurpose electrical test probe tip of claim  
2 17, said first end having a second diameter larger than said first diameter.  
3

1                   Claim 19 (withdrawn): The multipurpose electrical test probe tip of claim  
2 13, said first end further comprising a hook.  
3

1                   Claim 20 (withdrawn): The multipurpose electrical test probe tip of claim  
2 13, said first end further comprising a foot.  
3

1                   Claim 21 (withdrawn): The multipurpose electrical test probe tip of claim  
2 13 ~~claim 4~~ further comprising an exterior conductive sheath at least partially surrounding  
3 said conductive flexible member.  
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1                   Claim 22 (withdrawn): The multipurpose electrical test probe tip of claim  
2    ~~13 claim-4~~ further comprising an exterior insulating sheath at least partially surrounding  
3    said conductive flexible member.

1                   Claim 23 (withdrawn): The multipurpose electrical test probe tip of claim  
2    ~~13 claim-4~~ further comprising a conductor disposed at least partially through the axial  
3    center of said conductive flexible member.

1                   Claim 24 (withdrawn): A method for using a multipurpose electrical test  
2    probe having a probing head, said method comprising the steps of:

- 3                   (a)    providing a flexible spring tip, said flexible spring tip having a  
4                        connector end connectable to said probing head and a flexible coil  
5                        contact end remote from said probing head;  
6                   (b)    connecting said connector end to said probing head; and  
7                   (c)    placing said contact end in flexible electrical contact with an  
8                        electrical component to be probed so as to permit movement of  
9                        said probing head.

10  
1                   Claim 25 (cancelled):

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1                   Claim 26 (cancelled):

2  
1                   Claim 27 (cancelled):

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1                   Claim 28 (previously presented): The electrical test probe tip of claim 1,  
2   said conductive flexible coil being substantially hollow at said first end.

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1                   Claim 29 (previously presented): The electrical test probe tip of claim 1,  
2   said conductive flexible coil being substantially hollow.

3

1                   Claim 30 (previously presented): The electrical test probe tip of claim 1,  
2   said first end of said conductive flexible coil being suitable to receive a device to be  
3   probed therein.

4

1                   Claim 31 (previously presented): The electrical test probe tip of claim 1,  
2   wherein said first end of said conductive flexible coil at least partially surrounds a device  
3   to be probed.

4

1                   Claim 32 (previously presented): The multipurpose electrical test probe tip  
2   of claim 13, said conductive flexible member being substantially hollow.

3

1                   Claim 33 (previously presented): The multipurpose electrical test probe tip  
2   of claim 13, said first end of said conductive flexible member being suitable to receive a  
3   component to be probed therein.

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1                   Claim 34 (previously presented): The multipurpose electrical test probe tip  
2   of claim 13, wherein said first end of said conductive flexible member at least partially  
3   surrounds a component to be probed.

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1                   Claim 35 (withdrawn): The electrical test probe tip of claim 1, said first  
2 end of said flexible coil having at least one additional coupling mechanism extending  
3 therefrom, said additional coupling mechanism selected from the group consisting of:

- 4                   (a)     an enlarged coil having a diameter larger than the diameter of said  
5                             flexible coil;  
6                   (b)     a hook; and  
7                   (c)     a foot.

8

1                   Claim 36 (withdrawn): The electrical test probe tip of claim 13, said first  
2 end of said flexible coil having at least one additional coupling mechanism extending  
3 therefrom, said additional coupling mechanism selected from the group consisting of:

- 4                   (a)     an enlarged coil having a diameter larger than the diameter of said  
5                             flexible coil;  
6                   (b)     a hook; and  
7                   (c)     a foot.

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1                   Claim 37 (cancelled):

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1                   Claim 38 (cancelled):

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1                   Claim 39 (new): An electrical test probe tip, comprising:

- 2                   (a)     a conductive flexible coil having a first end and a second end, said  
3                             first end opposite said second end;  
4                   (b)     a connector;

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- 5 (c) said first end of said conductive flexible coil for coupling with a  
6 device to be probed; and
- 7 (d) said connector attached to the extreme second end of said  
8 conductive flexible coil with substantially no overlap between said  
9 conductive flexible coil and said connector.

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- 1 Claim 40 (new): The electrical test probe tip of claim 39, said conductive  
2 flexible coil having a longitudinal length, said conductive flexible coil being flexible along  
3 substantially said entire longitudinal length of said conductive flexible coil when  
4 interconnected with said connector.

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- 1 Claim 41 (new): A multipurpose electrical test probe tip interconnectable  
2 with a probing head, comprising:

- 3 (a) a conductive flexible member and having a longitudinal length;  
4 (d) a connector;  
5 (b) said flexible member having a first end at a first end of said  
6 longitudinal length and a second end at a second end of said  
7 longitudinal length;  
8 (c) said flexible member being substantially hollow at said first end;  
9 (e) said connector being connected to said second end of said flexible  
10 member;  
11 (f) said flexible member being flexible along substantially the entire  
12 longitudinal length of said flexible member when interconnected  
13 with said connector.

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1                   Claim 42 (new): The multipurpose electrical test probe tip of claim 41,  
2   said connector attached to said second end of said conductive flexible member with  
3   minimal overlap between said connector and said second end of said conductive  
4   flexible member.

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1                   Claim 43 (new): The multipurpose electrical test probe tip of claim 41,  
2   said connector attached to the extreme end of said second end of said conductive  
3   flexible member.

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